## INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP2	004/018151
	CATION OF SUBJECT MATTER  H01M8/04, F17C13/00		
According to Int	ternational Patent Classification (IPC) or to both national	al classification and IPC	
B. FIELDS SE	ARCHED		<del></del>
Minimum docun Int.Cl	nentation searched (classification system followed by cl H01M8/04, F17C13/00	assification symbols)	
Jitsuyo Kokai Ji	itsuyo Shinan Koho 1971-2005 Ji	oroku Jitsuyo Shinan Koho Itsuyo Shinan Toroku Koho	1994-2005 1996-2005
***************************************	pase consulted during the international search (name of	data base and, where practicable, search te	rms used)
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap		Relevant to claim No.
х	JP 60-62064 A (Hitachi, Ltd. 10 April, 1985 (10.04.85), Page 5, upper left column, li lower left column, line 7 to column, line 16; page 8, upper lines 9 to 16; page 10, upper line 7 to upper right column, Figs. 1, 6 (Family: none)	nes 14 to 17, lower right er right column, left column, line 16;	1,4
A	<pre>JP 2003-257466 A (Matsushita Industrial Co., Ltd.), 12 September, 2003 (12.09.03) Par. Nos. [0024] to [0025], [ Fig. 4 &amp; EP 1324415 A2 &amp; US</pre>	,	1,4
	dee patent failing amov.		
"A" document de	ategories of cited documents:  "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
"E" earlier applic	ation or patent but published on or after the international	"X" document of particular relevance; the cleonsidered novel or cannot be considered.	
"L" document w	hich may throw doubts on priority claim(s) or which is blish the publication date of another citation or other n (as specified)	step when the document is taken alone "Y" document of particular relevance; the cla	aimed invention cannot be
"O" document re	ferring to an oral disclosure, use, exhibition or other means	considered to involve an inventive st combined with one or more other such d being obvious to a person skilled in the	locuments, such combination
"P" document pu priority date	blished prior to the international filing date but later than the claimed	"&" document member of the same patent fa	
18 Marc	I completion of the international search ch, 2005 (18.03.05)	Date of mailing of the international searce 05 April, 2005 (05.	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.		Telephone No.	

## INTERNATIONAL SEARCH REPORT

International application No.

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
A	JP 2001-93551 A (Toshiba Corp.), 06 April, 2001 (06.04.01), Par. Nos. [0016] to [0019], [0041] to [0042], [0055]; Figs. 1, 12 & EP 1087455 A2 & US 6506513 B1 & US 2003/0082421 A1	1,4
P, A	JP 2004-234971 A (Electric Power Development Co., Ltd.), 19 August, 2004 (19.08.04), Par. Nos. [0019], [0035]; Fig. 3 (Family: none)	1,4
A	JP 2003-223920 A (Yuasa Corp.), 08 August, 2003 (08.08.03), Par. Nos. [0011], [0014] to [0015]; Fig. 2 (Family: none)	1-12
P,A	JP 2003-346862 A (Hitachi Maxell, Ltd.), 05 December, 2003 (05.12.03), Par. No. [0027]; Fig. 1 (Family: none)	1-12
E,A	JP 2005-11695 A (Matsushita Electric Industrial Co., Ltd.), 13 January, 2005 (13.01.05), Par. Nos. [0018], [0023] to [0024]; Fig. 1 (Family: none)	1-12
P,A	JP 2004-152741 A (Toshiba Corp.), 27 May, 2004 (27.05.04), Par. Nos. [0079] to [0086]; Figs. 7 to 9 & US 2004/0009381 A1	1-12
P,A	JP 2004-281341 A (Casio Computer Co., Ltd.), 07 October, 2004 (07.10.04), Figs. 3, 7 (Family: none)	1-12